

## 27.The unification process of databases of categories from all Specific Artificial Intelligences for Artificial Research by Application



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[Probabilidad Imposible: The unification process of databases of categories from all Specific Artificial Intelligences for Artificial Research by Application](#)

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## **27.The unification process of databases of categories from all Specific Artificial Intelligences for Artificial Research by Application**

There are at least two types of [Artificial Intelligences](#) in [Impossible Probability](#): Specific for every specific [synthetic science](#), discipline, or activity, and Global working at the same time over all synthetic sciences, disciplines, or activities, in a range of actions that can be national, continental, the whole planet, or [the universe](#).

The formation of the Global Artificial Intelligence needs the development of [artificial research](#), a [method for the scientific investigation](#) completely automatized by Artificial Intelligence, that at the global level means the automation of scientific research in all [synthetic sciences](#), disciplines, and activities, in a range of action that starting at national level can grow up to extend across the entire universe.

The automation of scientific research can be made by Application and by Deduction.

A [Specific Artificial Intelligence for Artificial Research by Application](#) in a specific science, discipline, or activity, is able to classify any object within the categories of its own [subject](#) through a scientific system based on: an application as a database of categories of that specific synthetic science, discipline, or activity (for instance a database of types of minerals), replication processes as all those replications of rational skills to identify any [object](#) in the [real world](#) and identify what category within the database corresponds to the object (for instance, having found a mineral to identify, within the current database of minerals, what category corresponds to the mineral found), and in case that there is no category within the database that can correspond to the object, the [measurements](#) already taken from the object as [samples](#) are going to be transformed into a new category within the database (if the mineral found has not any [correlation](#) within the database, the measurements from this new mineral are to form a new category within the database), and as long as this process is a process of auto-improvement, is an objective auto-replication itself of its own application without human intervention.

A [Specific Artificial Intelligence for Artificial Research by Deduction](#) in a specific science, discipline, or activity is able to make artificial deductions having as an application a matrix (for instance, in tectonics a matrix whose [factors](#) are going to be the flow of information from the temperature beneath the surface of the Earth, or information from any earthquake or tectonic phenomenon, wherever robotic devices can provide permanent information, including in the same matrix: [factors](#) as [subjects](#) whose flow of [data](#) is a flow of [direct punctuations](#) such as the flow of temperature from different locations across the world, or the flow of measurements in the scale of Richter of all possible earthquake, and [factors](#) as [options](#) whose flow of data is a flow of [frequencies](#) such as the frequency of tectonic phenomena) whose factors are going to be filled in the matrix by the measurements taken by robotic devices. The flow of information in the matrix is going to be tracked through replication processes of rational skills in order to find any [mathematical](#) relation ([stochastic](#), pattern, cryptographic, [equal opportunities](#) or bias, [positive](#) or [negative](#)) in any combination of factors, or a pattern even in any individual factor itself. Any relation in any combination treated as an [empirical hypothesis](#) is going to be [rationally contrasted](#), and if rational becomes a [rational hypothesis](#) to make a single virtual model to include in a [comprehensive virtual model](#) where all single models are already integrated. At any time that the comprehensive model is improved by the inclusion of a new single model, it is going to be considered as an auto-replication of the comprehensive model itself, without human intervention.

As the process of the construction of the first Specific Artificial Intelligences for Artificial Research by Application or by Deduction goes on, both intelligences can collaborate between them in every synthetic science, discipline, or activity. [The collaboration process between by Application and by Deduction](#) is possible through sharing information at the database level and sharing the robotic devices to get measurements for both intelligences.

The first collaboration process of sharing information at the database level means that:

- 1) any new category found by a Specific Artificial Intelligence for Artificial Research by Application in a specific synthetic science, discipline, or activity, can be transformed into a factor as an option within the specific matrix of that Specific Artificial Intelligence for Artificial Research by Deduction working on the same specific synthetic science, discipline or activity, as well as
- 2) any new rational hypothesis suitable to be considered as a factor as an option to measure its frequency and found by a Specific Artificial Research by Deduction, and able to be included as a category in the corresponding database of categories from its corresponding synthetic science, discipline, o activity,

could be shared as well with the Specific Artificial Intelligence for Artificial Research by Application in that synthetic science, discipline, or activity.

The second one is about sharing robotic devices for both purposes: having a set of robotic devices sending information, related to objects found in the real world, to a Specific Artificial Intelligence for Artificial Research by Application. This set of robotic devices could be designed as well to send information to a [specific matrix](#) or the [global matrix](#), on those factors where the robotic devices can get a permanent flow of information, defining in quantitative terms every factor in which it can send a permanent flow of information. For instance, a robotic device in a mine able to send all the information about every mineral that is extracted to the corresponding Specific Artificial Intelligence for Artificial Research by Application in mineralogy, in order to identify what minerals are being extracted, is a flow of information that set up as a factor as option (frequency in which every type of minerals is extracted) or as subject (amount extracted for every type of mineral), is an information coming up from a robotic device initially designed to supply information to an Specific Artificial Intelligence for Artificial Research by Application, that could be able to supply information to the global matrix if the factors that are being measured are previously defined in quantitative terms, in order to be included in the global matrix. As well as the same robotic device, working in a mine, can send information to other specific matrices, or the global matrix, related to the temperature below or above the surface of the mine, or any tectonic phenomena that could happen in the mine.

The results of these [experiments](#) and the collaboration process are going to be really important for the construction of the [Global Artificial Intelligence](#).

Once the first Specific Artificial Intelligences for Artificial Research by Deduction are ready, and have a good grasp of this technology through full experimentation at a specific level, then through the results already obtained, and already having these first specific matrices as a starting point, the process for the construction of the Global Artificial Intelligence goes on gathering in a gigantic database all specific matrices of all Specific Artificial Intelligences for Artificial Research by Deduction as well as any other bare database from as many institutions and agencies as possible, in order to have all this flow of information in only one gigantic database, to start the [standardization process](#) for the construction of the global matrix, which is going to be tracked by the Artificial Research by Deduction in the Global Artificial Intelligence.

Standardisation process that is going to be made along two different periods: the coexistence period and the consolidation period.

During the [coexistence period](#), Specific Artificial Intelligences for Artificial Research by Deduction in those different synthetic sciences, disciplines, and activities, in which this technology has been applied, are going to coexist with the Artificial Research by Deduction in the Global Artificial Intelligence, sharing all their specific matrices with the global matrix, at the same time the first Particular Deduction Programs for things or beings within the Artificial Research by Deduction in the Global Artificial Intelligence are going to be set up, that particular programs that making deductions at particular level are going to save time and energy to the Artificial Research by Deduction in the Global Artificial Intelligence in order to be this last one more focused mainly on global deductions.

In the [consolidation period](#) practically all Specific Artificial Intelligences for Artificial Research by Deduction are absorbed by the [Artificial Research by Deduction in the Global Artificial Intelligence](#), or are transformed into particular programs.

And as long as the standardization process goes on in order to create the first global matrix, another similar and parallel process can start as well, [the unification process of databases of categories from all Specific Artificial Intelligences for Artificial Research by Application](#), whose result should be the creation of the [Unified Application](#), that application whose database is formed by the union of all possible databases of categories coming up from all possible Specific Artificial Intelligences for Artificial Research by Application, so through this unified database of categories could be possible to analyse any real object from the [real world](#), and match it, as a replication process, with any category from the unified database of categories. And in case some object from the real world would not have any correlation with any category in the unified database, then the samples of measurements from the real object could become a new category to include in the unified database as an objective auto-replication of the database of categories by itself, without human intervention.

This process, as well as the other for the formation of the [global matrix](#), can evolve through two different periods, the coexistence period and the consolidation period.



**The coexistence period during the formation of the Unified Application is that period in which could be possible the coexistence of the Unified Application and the Specific Artificial Intelligences for Artificial Research by Application, while the first particular programs are set up because, at that moment, could be set up as well the first applications for particular programs: Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence.**

**The consolidation period is that one in which practically all Specific Artificial Intelligences for Artificial Research by Application are absorbed by the Unified Application or are transformed into particular applications for particular programs.**

**In order to understand what is going to be an application for a particular program, firstly, I will explain more deeply how should a particular program work, which in reality would be a Particular Deduction Program within the Artificial Research by Deduction in the Global Artificial Intelligence, and a particular program is not an intelligence itself due to the particular matrix that can be made is not apart from the global matrix, in fact, if for any reason any particular program should be put out of the system, only rejecting its access to the global matrix it would not be able to go on any longer, because its source of information is the global matrix itself where the particular program copies the flow of information of all those factors involved in its particular thing or being.**

**In fact, this particular matrix within the particular program within the Artificial Research by Deduction in the Global Artificial Intelligence, is not properly a fixed matrix, it is a liquid matrix in the sense that as long as the particular thing or being changes: changes in its own inner structure along the time or moves on around the space; as long as there are changes along the time and the space, the flow of information from factors to copy from the global matrix into the particular matrix are going to change as well.**

**The particular matrix is a liquid matrix which is going to experience changes as long as the particular thing or being is going to change over time and space.**

**For instance, the particular matrix that could be made for a particular program to follow how a whale grows up in the ocean could be a particular matrix that is going to experiment**

with changes as long as the whale is going to grow up, having changes in its own body, biological patterns, possible diseases,... and as long as the whale is going to move across the ocean, the particular matrix should have access to any data from the global matrix about any factor concerning the positions that the whale is constantly crossing at any time.

The particular matrix that could be made for a particular hurricane in the Caribbean Sea, is going to change its factors to choose from the global matrix as long as the hurricane is changing its shape and its position.

A Particular Deduction Program within the Artificial Research by Deduction in the Global Artificial Intelligence works as follows: having gathered all possible factors from the global matrix concerning a particular thing or being, can choose at any time what factors from the global matrix are necessary or discarded at any time in order to, from the flow of information of those necessary factors in the global matrix at any time, copy that flow of information in its particular matrix, to make particular deductions, that if rational, are going to become [rational hypothesis](#), to include in a database of rational hypothesis in the Artificial Research by Deduction in the Global Artificial Intelligence, a database of rational hypothesis which includes all rational hypothesis from all particular programs as well as all rational hypothesis from global deductions, to form a single virtual model of each of them to include in the comprehensive virtual model: the global model.

But at any time, the particular matrix is not a fixed matrix, but a liquid matrix, changing the factors to choose at any time from the global matrix as long as the particular thing or being for which it has been designed changes at any moment.

In conclusion, the particular matrix of any particular program is going to be only the copy of that flow of information from only all those chosen factors necessary at any time in the global matrix, related to its particular thing or being, copying from the global matrix the flow of information of those chosen factors or discarding factors as long as its particular thing or being changes, so the particular matrix in the particular program is going to depend entirely on the global matrix, in the sense that all possible information coming up from all possible factors to include in the particular matrix is information that comes from the global matrix, where all robotic devices share their measurements filling in the respective files of every factor in the global matrix, and later on every particular program can copy that information from the global matrix.

The reason why all information for all possible factors must be gathered in one global matrix is because any program within the Artificial Research by Deduction in the Global Artificial Intelligence, as long as the Artificial Research by Deduction in the Global Artificial Intelligence itself, has all the information gathered in only one matrix can make as many deductions as possible for global or particular purposes sharing all the time the information in only one matrix.

Sharing all possible information in only one matrix is going to make the scientific research process more transparent and democratic because any program, at the same time, can have access to any information without restriction in the Global Artificial Intelligence. Any scientific result could be more transparent and accessible to any program within the Global Artificial Intelligence without secrecy, increasing liberty and equity across the entire Global Artificial Intelligence.

The Global Artificial Intelligence is ideally guided by a liberal framework that upholds democracy, freedoms, and human rights..

In case any particular program would be out of control, putting at risk these moral principles, only rejecting its access to the global matrix, any dangerous particular program could be turned off automatically. Not having access to the global matrix, any program cannot be able to go on working on any matter.

In order to have under control all particular programs, the Global Artificial Intelligence must have under its own control, management, and direction the global matrix, the global model, the Modelling System, the Decisional System, the Application System and the Learning System.

Having explained more deeply what is a particular program, in reality, a Particular Deduction Program within the Artificial Research by Deduction in the Global Artificial Intelligence, it is time to explain what it is an application for a particular program, in reality, a Particular Application for a Particular Deduction Program within the Artificial Research by Deduction in the Global Artificial Intelligence.



If the collaboration process between by Application and by Deduction is based on the fact that there is going to be a double track, while by Deduction it is possible to track the global matrix, by Application it is possible to track [the reality](#) itself.

And the tracking of the global matrix is going to be a double check as well, due to global deductions within the global matrix are going to be made by the Artificial Research by Deduction in the Global Artificial Intelligence, while particular deductions are going to be made by particular programs.

Then the tracking of the real world is going to be doubled as well. The Unified Application is going to track the whole real world, while the particular reality to search by a particular program is going to be tracked by particular applications.

The way in which the particular applications are going to work is taking from the unified database of categories, within the Unified Application, all those necessary categories in the research within a particular program in order to create a particular database of categories for this particular program, but in a very liquid way, so at any time that there is a change in the particular program that needs changes in the current list of categories in the particular application, then the list of categories in the application should change as long as the program changes, including or discarding categories in its particular database as long as the new changes in the program demand the inclusion of any other category from the unified database of categories, or discarding any category already included in the particular database but not necessary any more.

And as long as there is a new category discovered by the particular application in a particular program should be sent automatically to the unified database of categories as well as the global matrix to be included as a factor as an option to study its frequency. And as long as any new category is included in the unified database of categories and/or the global matrix, in order to have updated its particular list of categories, the particular applications must regularly check the unified database of categories in order to find out if the unified database of categories has been recently improved by the introduction of any new category on its matter.

The Unified Application is ideal for research that spans multiple domains, whereas particular applications are more efficient when a limited, particular set of categories needs to be monitored.

For instance, while in the International Space Station, or in any space agency such as NASA, ESA, ROSCOMOS, CNSA, would be more useful a Unified Application for lots of space investigations that currently they are carrying on different matters: from the Earth's geology to the Earth's ionosphere and the outer space; having in the Unified Application a unified database of categories, however, there are some particular programs where is more useful to reduce the number of categories to track to those ones really necessary.

The reason for the reduction of the number of categories to track to the minimum in a particular application is that reducing the number of categories is possible to save time and energy spent on the tracking of those categories really important to track in a particular thing or being.

If in a particular investigation is necessary to track only a particular list of categories, the particular database of categories of this particular application for this particular program should have only as many categories as necessary for the investigation, so reducing the number of categories is possible to spend more time and energy over those ones really important. And as long as the number of categories could be reduced up to those ones really necessary, even those ones can change at any moment when for any reason, there is a change in the particular program that demands changes in the current list of categories in the particular application, discarding those categories in the database of categories or including other categories from the unified database of categories at any time that the particular program changes.

For that reason, this does not mean that a particular application is like a Specific Artificial Intelligence for Artificial Research by Application, because while the Specific Artificial Intelligence for Artificial Research by Application is an intelligence due to it having a specific database by itself, the database of the particular application is a liquid database of categories depending on the unified database of categories.

The particular database of a particular application would depend on the unified database of categories because the unified database of categories is going to take any category that in the future could be necessary for changes in the particular program which is associated with and because in the unified database of categories is where any new category found is going to be shared, so any particular application only can be updated through new discoveries included in the unified database of categories coming up from the Unified Application or any other particular application.

At any time by any reason, a particular application should be put out of the system, only rejecting its access to the database of categories it cannot include other categories any more, and cannot update its particular database of categories.

The reason why it is necessary to have under control, manage, and direction all particular applications within the Unified Application, is because sharing all of them the information in one database of categories, the way to collect [scientific knowledge](#) is more transparent and democratic, at any time that any particular application would be out of control, putting at risk the transparency and democracy in the way to achieve knowledge, any particular application out of control should be turned off, or at least to deny the access to any database of categories or matrix forever.

Current developments in Artificial Intelligence raise concerns regarding safety and governance. Ensuring robust oversight is crucial to avoid unintended consequences.

The unification process of databases of categories from all Specific Artificial Intelligence for Artificial Research by Application is going to create, as a result, a unified database of categories, for the creation of a Unified Application.

The relation between the Unified Application and any other particular application that could be created is like the relation between the Artificial Research by Deduction in the Global Artificial Intelligence and the particular programs.

While the Artificial Research by Deduction in the Global Artificial Intelligence tracks the global matrix to make global deductions, the particular programs track those particular factors from the global matrix to make particular deductions.

While the Unified Application tracks the real world to match objects from the real world and categories within the unified database of categories, the particular applications track the real world to match objects from the real world between those categories selected according to their particular program.

The formation of the unified database of categories, the Unified Application, and the relations between the Unified Application and the particular applications, and the collaboration between the global matrix and the unified database of categories, are some contents to develop in the following posts regarding the process of unification of databases of categories.

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